

AP Microfine 10

ULTRAFINE CEMENT



1-Component

DESCRIPTION

AP MICROFINE 10 is a blast furnace slag ultrafine cement intended for use in specialty grouting applications. With a D95 particle size of ten microns and a D50 particle size of three microns, AP MICROFINE 10 is able to penetrate very small openings such as soil pores and microscopic rock fissures in order to improve strength and reduce permeability.

USES

- Pre and post-excavation grouting.
- Water cut-off grouting.
- Dam and embankment grouting.
- Foundation stabilization, new and existing.
- Soil consolidation.
- Oil and gas well remediation.
- Hazardous waste containment grouting.
- Maintenance grouting of existing dams and tunnels.

ADVANTAGES

- Excellent permeability.
- Environmentally friendly.
- Long-term durability.
- Highly adaptable.
- Brine tolerant.
- Highly predictable.

TECHNICAL DATA

Physical Properties

AP MICROFINE 10	
Specific Gravity	0.11 lbs/in ³ (3.00 g/cm ³)
Loose Density	0.04 lbs/in ³ (1.00 g/cm ³)
D ₅₀ Particle Size	0.000118 in (3 μm)
D ₉₅ Particle Size	0.000394 in (10 μm)
Blaine Fineness	4638.31 ft ² /lb (950 m ² /kg)

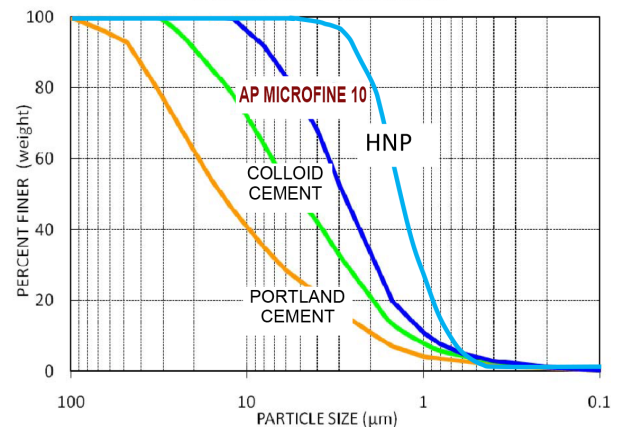
Chemical Composition (No Polluting Elements)

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	CaO	MgO	SO ₃
30%	11%	2%	50%	5%	1%

Particle Size Comparison

	PARTICLE SIZE		SPECIFIC GRAVITY	SPECIFIC GRAVITY
	D ₉₅	D ₅₀		
Portland Cement	0.003937 in (100 μm)	0.000787 in (20 μm)	0.11 lbs/in ³ (3.16 g/cm ³)	14061.39 in ² /oz (3,200 cm ² /g)
Nittetsu Colloid	0.001575 in (40 μm)	0.000276 in (7 μm)	0.11 lbs/in ³ (3.02 g/cm ³)	27243.95 in ² /oz (6,200 cm ² /g)
AP MICRO-FINE 10	0.000394 in (10 μm)	0.000118 in (3 μm)	0.11 lbs/in ³ (3.00 g/cm ³)	42184.17 in ² /oz (9,600 cm ² /g)
HNP-1500	0.000197 in (5 μm)	5.9055E-5 in (1.5 μm)	0.11 lbs/in ³ (2.94 g/cm ³)	

Grain Size Distribution Curve



PACKAGING

44 lb (19.96 kg) plastic pail. 6 oz (0.17 kg) bottle of plasticizer included.

SAFETY PRECAUTIONS

Avoid contact with eyes and skin, always use personal protective equipment in compliance with local regulations. Read the relevant Safety Data Sheet before use. Safety Data Sheets are available on www.alchemy-spetec.com When in doubt contact Alchemy-Spetec Technical Service.

FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. READ SAFETY DATASHEET PRIOR TO EVERY USE.